National Aeronautics and Space Administration

Applied Remote Sensing Training (ARSET) Program

Cindy Schmidt

Biodiversity and Ecological Forecasting Team Meeting

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Capacity Building Program Elements

Program Manager: Nancy Searby

SERVIR: Building international capacity with hubs in East Africa, Hindu Kush-Himalaya, Mesoamerica, Southeast Asia

Applied Remote SEnsing Training, ARSET: Online and hands on basic/advanced training to build skills

DEVELOP: Dual workforce/local government capacity building using collaborative feasibility projects, internships

Remote Sensing Capacity Building with Indigenous Peoples

Lead: Cindy Schmidt

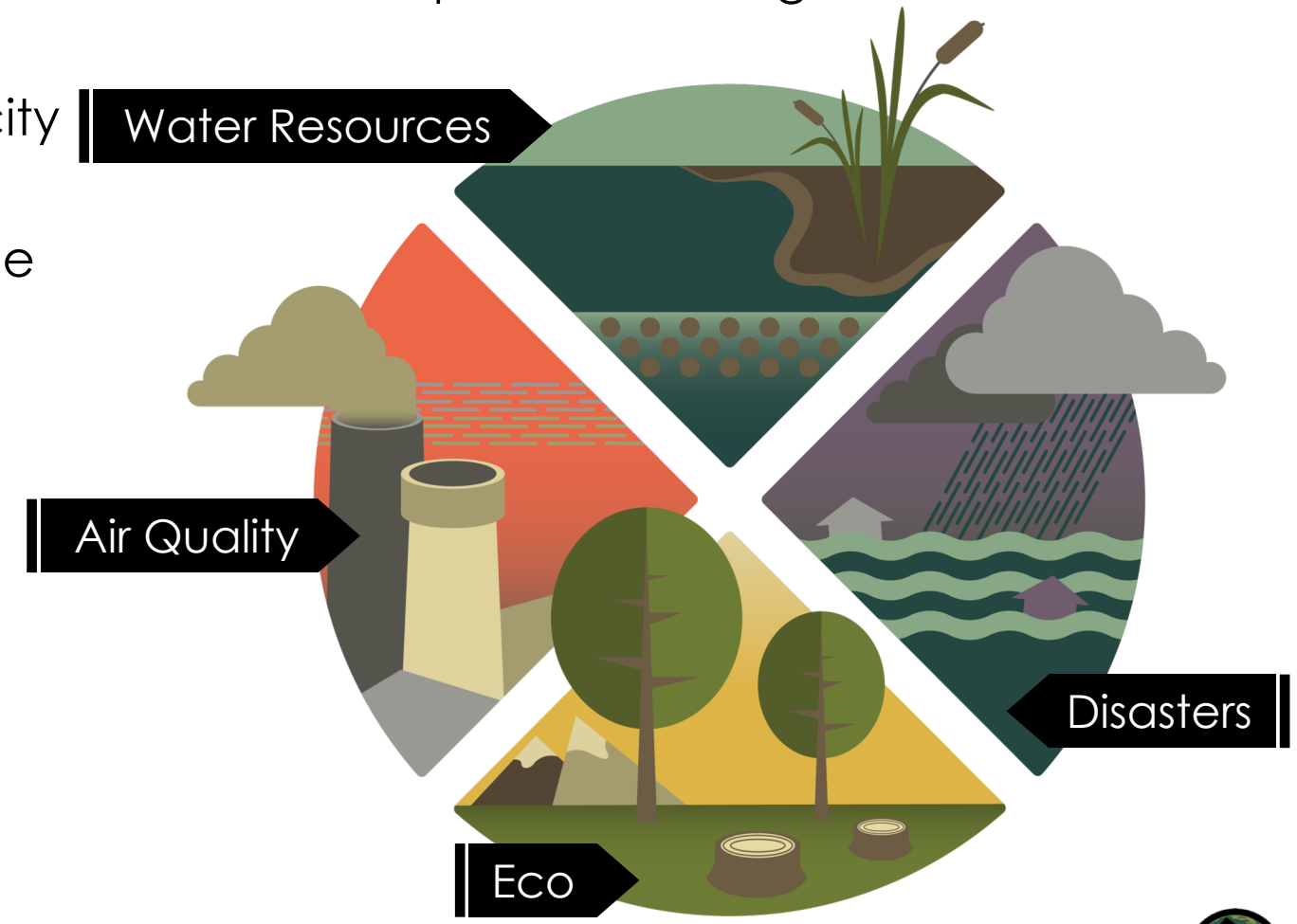
In-person remote sensing training, place-based approaches, community engagement, all incorporating Traditional Ecological Knowledge

NASA's Applied Remote Sensing Training Program (ARSET)

http://arset.gsfc.nasa.gov/

- Empowering the global community through remote sensing training
- Part of NASA's Applied Sciences Capacity Building Program
- Goal to increase the use of Earth science in decision-making through training for:
  - policy makers
  - environmental managers
  - other professionals in the public and private sector

Topics for Trainings Include:



ARSET Training Formats

Online

- Offered through the internet
- Available live and recorded
- Typically 4-6 hours long
- Available at all training levels:
  - Fundamentals of Remote Sensing
  - Introductory
  - Advanced

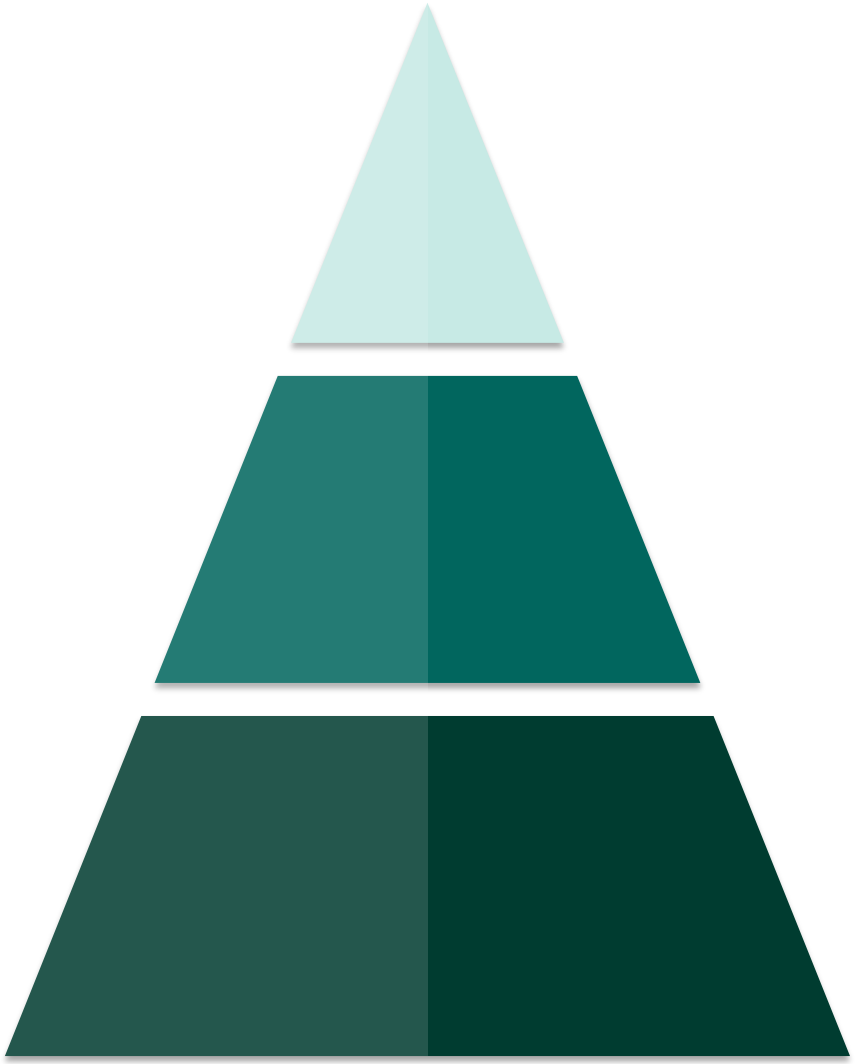
In-Person

- 2-7 days in length
- Held in a computer lab
- Mixture of lectures and exercises
- Locally relevant case studies
- Available levels:
  - Introductory
  - Advanced

Train the Trainers

- Trainings and materials
- Offered online & in-person
- For organizers seeking to develop their own applied remote sensing training programs

ARSET Training Levels



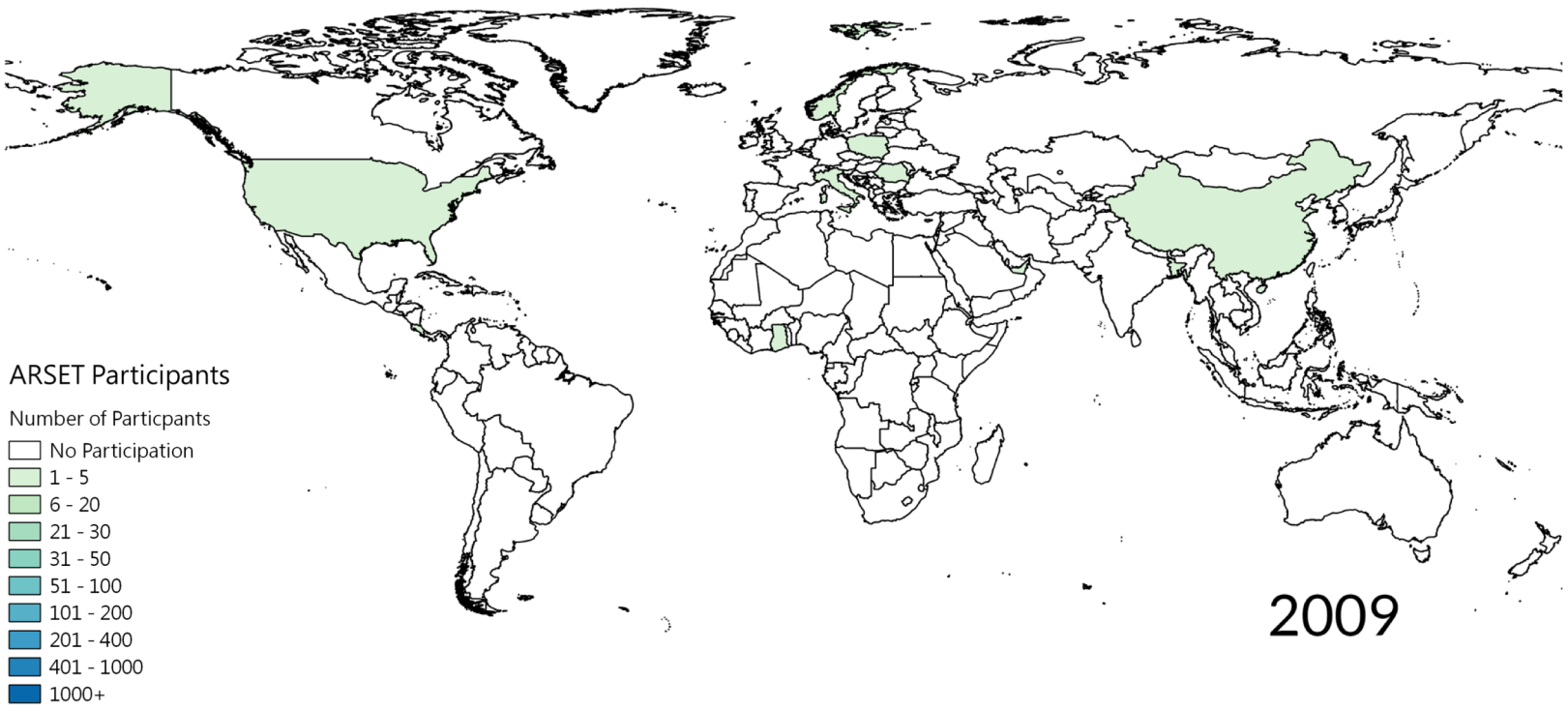
Advanced (Level 2)
Requires level 1 training or equivalent knowledge
In-depth and highly focused topics
Advanced Webinar: SAR Image and Data Processing

Basic (Level 1)
Requires level 0 training or equivalent knowledge
Covers specific applications
Introduction to Synthetic Aperture Radar

Fundamentals (Level 0)
Assumes no prior knowledge of remote sensing
Fundamentals of Remote Sensing

ARSET Trainings

ARSET Global Participants (2009, 2012-2017)



- 100 trainings
- 13,000+ participants
- 150+ countries
- 3,700+ organizations

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